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Serial No.: 10/915435
Art Unit: 2142
Examiner: Harrell
Docket No.: RPS9 2001 0134 US1

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1 (currently amended). A method of responding to a client request for information from a server service device in a data processing network, comprising:

receiving the information request from the client;

opening a client-server connection between the client and the server;

responsive to receiving the client request and determining that at least a portion of the requested information is not in a cache of the server device, sending the a storage request to a network attached storage device;

responsive to the storage request, and generating a packet containing at least a portion of the requested information; and

sending the generated packet simultaneously to the client and to the server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a client-server protocol stack associated with the client-server connection in the generated packet.

2-3 (canceled).

4 (currently amended). The method of claim 3 1, wherein the packet includes a source address and wherein generating the packet further includes using the an IP address of the server as the source address.

5 (currently amended). The method of claim 1, wherein sending the generated packet comprises including a multicast address in the packet.

6 (currently amended). The method of claim 5, wherein the multicast address is incorporated at in a data link layer of the packet's protocol stack packet.

7 (original). The method of claim 5, wherein the generated packet is multicast to the server and to a gateway to which the client is connected via a wide area network.

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8 (original). The method of claim 5, wherein the generated packet is multicast to the server and to a client connected to the server via a local area network.

9 (currently amended). The method of claim 1, further comprising updating the server cache with the ~~requested~~ the portion of the information contained in the generated packet responsive to the server receiving the generated packet.

10 (currently amended). The method of claim 1, further comprising, responsive to a subsequent client request for the ~~requested data~~, generating information, generating a second storage request if the server failed to receive the generated packet.

11 (currently amended). A data processing network, comprising:

a server ~~device~~ configured to receive from a client connected to the network, via a client-server connection, a request for information ~~requests from a client connected to the network;~~

a network attached storage device connected to the server ~~device~~ via a local area network;

server ~~device~~ code for determining if the ~~requested data~~ information is available in ~~the server's a~~ local cache of the server;

server ~~device~~ code for generating a storage request responsive to determining that the ~~requested data~~ information is not locally available;

storage device code for generating a packet containing at least a portion of the ~~requested~~ information responsive to the storage request; and

storage device code for sending the ~~generated~~ packet simultaneously to the client and to the ~~server~~ server;

wherein the storage request includes protocol information corresponding to the client-server connection; and

wherein generating the packet includes using the protocol information to replicate a protocol stack associated with the client-server connection in the packet.

12-13 (canceled).

14 (currently amended). The data processing network of claim ~~13~~ 11, wherein generating the packet further includes using ~~the an~~ IP address of the server as ~~the a~~ source address for the packet.

15 (currently amended). The data processing network of claim 11, wherein the code for ~~sending the generated~~ generating the packet comprises including a multicast address in the packet.

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16 (currently amended). The data processing network of claim 15, wherein the multicast address is incorporated at a data link layer of the ~~protocol stack~~ packet.

17 (currently amended). The data processing network of claim 15, wherein the ~~generated~~ packet is multicast to the server and to a gateway to which the client is connected via a wide area network.

18 (currently amended). The data processing network of claim 15, wherein the ~~generated~~ packet is multicast to the server and to a client connected to the server via a local area network.

19 (currently amended). The data processing network of claim 11, further comprising server code for updating the local cache of the server ~~cache~~ with the ~~requested~~ portion of the information in the packet responsive to the server receiving the ~~generated~~ packet.

20 (currently amended). The data processing network of claim 11, further comprising server code for generating a second storage request in response to a subsequent client request for the ~~requested data~~ information if the server failed to receive the ~~generated~~ packet.

21 (currently amended). A computer program product comprising ~~code means~~ computer executable instructions, stored on a computer readable medium, for generating ~~packets~~ a packet responsive to a client request for information, ~~the code means~~ the computer executable instructions comprising:

~~code means for determining that instructions for determining, by a server, that the requested information is not available in a server cache;~~

~~code means~~ instructions for sending a storage request to a network attached storage device;

~~code means~~ instructions for retrieving the ~~requested~~ information from a network attached storage device disk and generating a packet containing at least a portion of the ~~requested~~ information; and

~~code means~~ instructions for sending the ~~generated~~ packet simultaneously to the client and the ~~server~~ server;

wherein the storage request includes protocol information corresponding to the client-server connection;

wherein the instructions for generating the packet include instructions for using the information to replicate a client-server protocol stack in the generated packet.

22-23 (canceled).

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24 (currently amended). The computer program product of claim ~~23~~ 21, wherein the ~~code means~~ instructions for sending ~~generating the generated packet~~ comprises ~~code means~~ instructions for including a multicast address in the packet, wherein the multicast address identifies the client and the server.

25 (currently amended). The computer program product of claim 21, further comprising ~~code means~~ instructions for updating the server cache with the ~~requested~~ portion of the information contained in the packet responsive to the server receiving the ~~generated~~ packet.

26 (currently amended). The computer program product of claim 21, further comprising ~~code means~~ instructions for generating a second storage request in response to a subsequent client request for the ~~requested data~~ information if the server failed to receive the generated packet.